

# FAAA\_005參考資料 - FAAA\_005認證指南

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**Exam** : FAAA\_005

**Title** : Pure Storage FlashArray  
Architect Associate

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>> FAAA\_005參考資料 <<

## 完整的FAAA\_005參考資料 |高通過率的考試材料|正確的FAAA\_005: Pure Storage FlashArray Architect Associate

Pure Storage的FAAA\_005考試認證，PDFExamDumps是當前最新Pure Storage的FAAA\_005考試認證和考題準備問題提供認證的候選人中的佼佼者，我們資源不斷被修訂和更新，具有緊密的相關性和緊密性，今天你準備Pure

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## 最新的 FlashBlade Architect Professional FAAA\_005 免費考試真題 (Q58-Q63):

### 問題 #58

A controller receives a write request.

If it generates a hash that is already recorded in the hash table, what happens next?

- A. The next incoming block is then hashed to see if it can be deduplicated.
- B. Purity//FA will expand the block to see if it can deduplicate a larger dataset.
- C. Deep level compression is then applied to the newly hashed block.
- **D. The new block is compared to the existing block to confirm they are duplicates.**

答案： D

解題說明：

When a controller generates a hash for an incoming write request and finds that the hash already exists in the hash table, the next step is to compare the new block to the existing block to confirm they are duplicates.

Why This Matters:

Hash Collision Handling:

Hash functions can sometimes produce the same hash value for different data blocks (a "hash collision"). To ensure data integrity, the system must verify that the new block is identical to the existing block before deduplication occurs.

Data Integrity:

Comparing the blocks ensures that only true duplicates are deduplicated, preventing data corruption or loss due to hash collisions.

Why Not the Other Options?

A). The next incoming block is then hashed to see if it can be deduplicated:

Hashing the next block is unnecessary at this stage. The focus is on verifying whether the current block is a duplicate.

B). Deep level compression is then applied to the newly hashed block:

Compression is a separate process from deduplication and does not occur immediately after hashing.

D). Purity//FA will expand the block to see if it can deduplicate a larger dataset:

Expanding the block is not part of the deduplication process. Deduplication operates on individual blocks, not larger datasets.

Key Points:

Hash Table Lookup: Identifies potential duplicates based on hash values.

Block Comparison: Confirms that the new block matches the existing block to ensure data integrity.

Deduplication: Eliminates redundant data to optimize storage efficiency.

Reference: Pure Storage FlashArray Documentation: "Understanding Deduplication in Purity//FA" Pure Storage Whitepaper: "Data Reduction Techniques in FlashArray" Pure Storage Knowledge Base: "How Deduplication Works in FlashArray"

### 問題 #59

Refer to the exhibit.



What does the depicted value 77.24 T represent?

- A. Total raw space on the array
- B. Total deduplicated space
- **C. The guaranteed capacity**
- D. Total useable space

答案： C

#### 解題說明:

The value 77.24 T in the context of Pure Storage FlashArray represents C. The guaranteed capacity.

#### Detailed Explanation

Guaranteed Capacity is a feature of Pure Storage's Evergreen subscription model. It reflects the effective capacity Pure Storage commits to the customer based on their typical data reduction ratios (deduplication, compression, and pattern removal). This value is calculated as:

Guaranteed Capacity=Physical Raw Capacity×Data Reduction Factor (DRF) Guaranteed Capacity=Physical Raw Capacity×Data Reduction Factor (DRF) Pure typically guarantees a minimum DRF (e.g., 3:1 for many workloads), but actual savings often exceed this.

#### Why Not the Other Options?

A). Total usable space: This would include the total logical capacity after data reduction and overheads (RAID-HD, metadata), which is usually larger than the guaranteed capacity.

B). Total raw space: This refers to the physical capacity of drives (e.g., 100TB raw). The value shown (77.24T) is smaller than raw, so this is incorrect.

D). Total deduplicated space: Pure Storage combines dedupe, compression, and pattern removal into a single "data reduction" metric. Deduplication alone is not isolated in capacity reporting.

#### Official

Reference: Pure Storage documentation explicitly defines Guaranteed Capacity as the "logical capacity Pure commits to deliver, factoring in data reduction." This aligns with the Evergreen/Forever subscription model, where customers pay for usable capacity, not raw storage.

#### 問題 #60

The customer asks if the FlashArray is suitable for a cloud-native application that utilizes containers and Kubernetes. Which response addresses this question?

- A. This is supported via an installable CSI provider specifically for the FlashArray.
- **B. This is supported via Pure's Portworx offering.**
- C. This is supported and Pure uses a software layer that is only compatible with DAS storage in Kubernetes.
- D. This is not supported with FlashArray and this application data will need to be stored on a different array.

#### 答案: B

#### 解題說明:

The FlashArray is suitable for cloud-native applications that utilize containers and Kubernetes, but the best way to address this use case is through Pure Storage's Portworx offering.

#### Why This Matters:

#### Portworx:

Portworx is a container storage and data management platform specifically designed for Kubernetes and cloud-native applications. It integrates seamlessly with FlashArray to provide persistent storage, data protection, and advanced features like snapshots, replication, and disaster recovery for containerized workloads.

Portworx ensures high performance, scalability, and reliability for stateful applications running in Kubernetes environments.

#### Why Not the Other Options?

A). This is not supported with FlashArray and this application data will need to be stored on a different array:

This statement is incorrect. FlashArray is fully capable of supporting cloud-native applications when paired with the right tools, such as Portworx.

B). This is supported via an installable CSI provider specifically for the FlashArray:

While FlashArray does support a Container Storage Interface (CSI) driver, it is a basic integration and does not provide the advanced features and capabilities offered by Portworx for Kubernetes environments.

D). This is supported and Pure uses a software layer that is only compatible with DAS storage in Kubernetes:

This statement is incorrect. Pure Storage solutions are compatible with both direct-attached storage (DAS) and external storage arrays like FlashArray.

#### Key Points:

Portworx: The recommended solution for integrating FlashArray with Kubernetes and containerized applications.

Advanced Features: Provides persistent storage, data protection, and scalability for cloud-native workloads.

Integration: Ensures seamless compatibility between FlashArray and Kubernetes environments.

Reference: Pure Storage Portworx Documentation: "Integrating Portworx with FlashArray" Pure Storage Whitepaper: "Cloud-Native Storage Solutions with Portworx" Pure Storage Knowledge Base: "Best Practices for Kubernetes and FlashArray Integration"

## 問題 #61

A cost-conscious customer at a small regional hospital is running a PACS image archive on an NL-disk array.

The customer has the following requirements:

- \* More than 1 PB of storage
- \* Latency is not a concern
- \* Customer user shares must be on the same array

Which solution will meet the customer's needs?

- A. FlashArray//X
- **B. FlashArray//C**
- C. FlashArray//XL

答案: **B**

解題說明:

The customer at the small regional hospital requires a storage solution for a PACS image archive with the following requirements:

More than 1 PB of storage

Latency is not a concern

Customer user shares must be on the same array

The best solution to meet these needs is FlashArray//C.

Why This Matters:

FlashArray//C:

FlashArray//C is designed for capacity-optimized workloads, making it ideal for use cases like PACS image archives that require large amounts of storage at a lower cost per GB.

It supports QLC flash technology, which provides high density and cost efficiency for less performance-intensive workloads.

With its ability to scale to over 1 PB of storage, FlashArray//C can meet the customer's capacity requirements while supporting both block and file workloads (e.g., user shares) on the same array using FA File Services.

Why Not the Other Options?

A). FlashArray//X:

FlashArray//X is optimized for high-performance workloads, such as databases and mission-critical applications. While it supports large capacities, it is more expensive and not the most cost-effective solution for latency-insensitive workloads like PACS archives.

B). FlashArray//XL:

FlashArray//XL is designed for extreme-scale workloads requiring massive performance and capacity. It is overkill for this use case and would significantly increase costs without providing proportional benefits.

Key Points:

FlashArray//C: Provides high-density storage at a low cost per GB, ideal for large-scale, latency-insensitive workloads.

Unified Storage: Supports both block and file workloads on the same array, meeting the requirement for user shares.

Cost Efficiency: Balances performance and cost, making it suitable for PACS archives and similar use cases.

Reference: Pure Storage FlashArray//C Documentation: "Use Cases for FlashArray//C" Pure Storage Whitepaper: "Optimizing Storage Costs with FlashArray//C" Pure Storage Knowledge Base: "Choosing the Right FlashArray Model for Your Workload"

## 問題 #62

Which FlashArray feature best protects local snapshots from ransomware attacks?

- A. CloudSnap
- **B. SafeMode**
- C. ActiveCluster

答案: **B**

解題說明:

The FlashArray feature that best protects local snapshots from ransomware attacks is SafeMode.

Why This Matters:

SafeMode Snapshots:

SafeMode is a security feature that creates immutable snapshots, meaning they cannot be deleted, modified, or encrypted by malicious actors, including ransomware.

These snapshots are locked for a user-defined retention period, ensuring data integrity and recoverability even in the event of a ransomware attack.

Why Not the Other Options?

A). CloudSnap:

CloudSnap offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it provides an offsite backup solution, it does not inherently protect against ransomware attacks targeting local snapshots.

C). ActiveCluster:

ActiveCluster provides synchronous replication between two sites for high availability. While it ensures data redundancy, it does not protect against ransomware attacks targeting snapshots.

Key Points:

SafeMode: Creates immutable snapshots to protect against ransomware attacks. Data Integrity: Ensures snapshots remain unaltered during the retention period. Ransomware Protection: A critical feature for safeguarding data in modern IT environments.

Reference: Pure Storage FlashArray Documentation: "SafeMode Snapshots for Ransomware Protection" Pure Storage Whitepaper: "Protecting Data Against Ransomware with FlashArray" Pure Storage Knowledge Base: "Best Practices for Using SafeMode Snapshots"

## 問題 #63

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